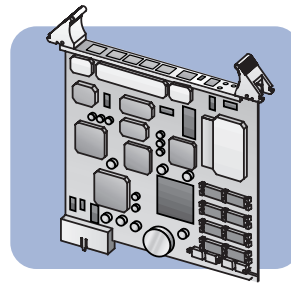


# hp StorageWorks

## Interface Manager for ESL Tape Libraries Replacement Instructions



**Caution:** The expansion cage and the expansion cards that it contains are not hot-pluggable. To avoid damage to equipment and possible loss of data, make sure that the library is properly powered down, as described in Step 2, before proceeding.

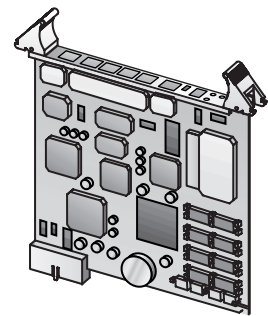


**Caution:** Parts can be damaged by electrostatic discharge. Keep parts in their containers until needed. Make sure that you are properly grounded when touching static-sensitive components.



**Note:** This poster outlines the installation procedures for a replacement Interface Manager card. If you are adding an Interface Manager card to an existing configuration of one to four FC interface controllers or installing an Interface Manager card in a new configuration, refer to the *HP StorageWorks Interface Manager and Command View ESL Installation Guide* for instructions.

1



Gather the following:

- Replacement Interface Manager card
- Screwdrivers (Phillips and flathead)
- Allen wrench
- Anti-static wrist strap

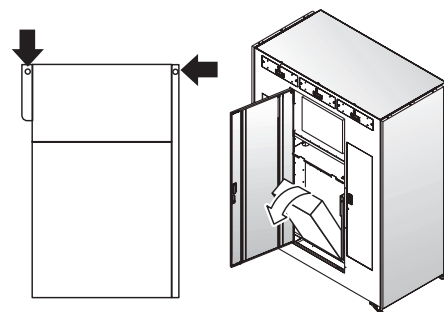
2



Power down the ESL9000 Series library.

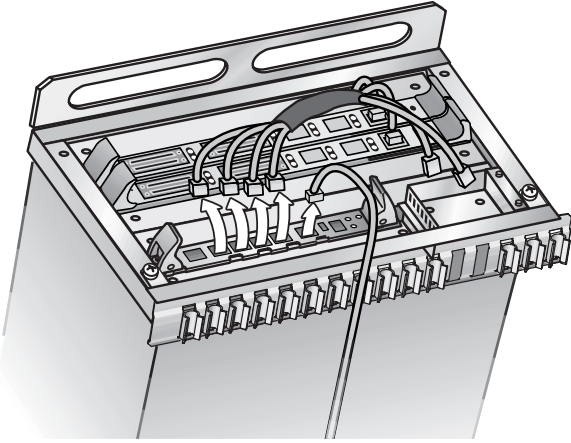
- Press **Standby** on the front control panel of the library to place the library off-line. Verify that the control panel indicates **System Off-line**.
- Check the **Overview** screen of the control panel to verify that the gripper is empty. If there is a tape cartridge in the gripper, perform a move command to place the cartridge in an available storage bin.
- Switch off the power switch located below the control panel.

3



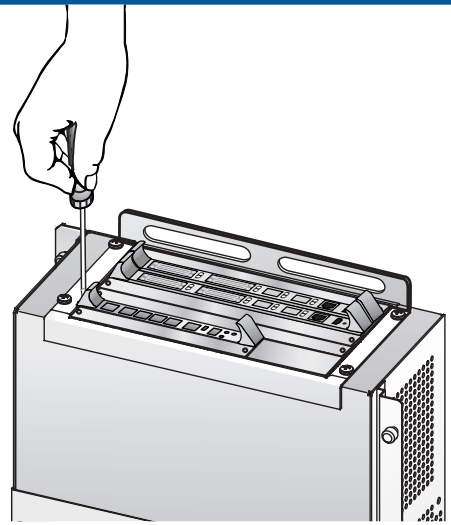
Open the center back access door or the right back access door of the library, depending on the model. Turn off both circuit breakers on the AC power distribution assembly, located in the base of the library cabinet behind the rear access panel. Loosen the two captive screws at the top of the electronics bay frame and carefully tilt the electronics bay outward.

4



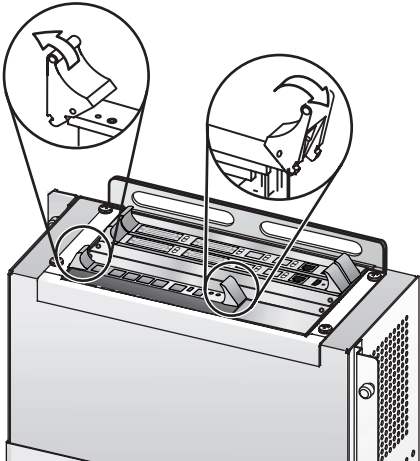
Make a note of where each cable is connected, and then disconnect all cables from the Interface Manager card.

5



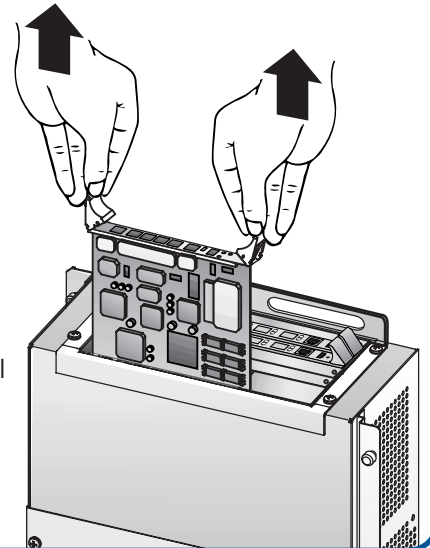
Loosen the captive screws.

6



Push the ejector handles on the existing Interface Manager card outward.

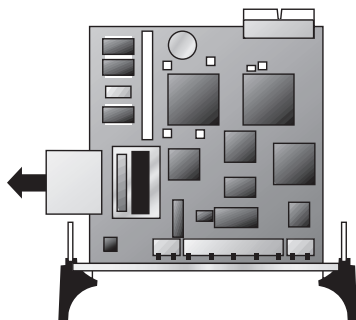
7



Grasp the ejector handles and pull up on the Interface Manager card until the card clears the expansion cage. Set this card aside on a stable work surface.

## 8 Memory Module Relocation

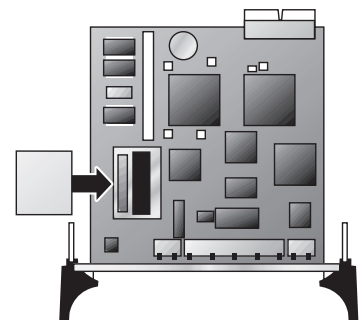
Position the existing Interface Manager card battery-side up to access the memory module.



Grasp the edges of the memory module and slide it out of the flash memory slot. If needed, push a pen into the corner notches of the flash memory slot to unseat the memory module.

9

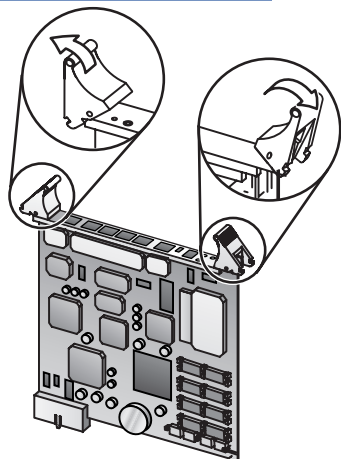
Remove the replacement Interface Manager card from its protective sleeve and place it on your work surface.



With the connector going in first, align the sides of the memory module with the flash memory slot on the replacement Interface Manager card. Gently slide the memory module into the slot until it is securely seated. If the memory module does not slide in easily, the module is upside down. Pull the module back out, flip it over, and reinsert it into the slot.

10

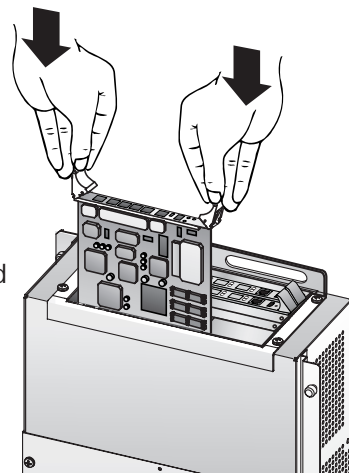
## Replacement Interface Manager Card Installation



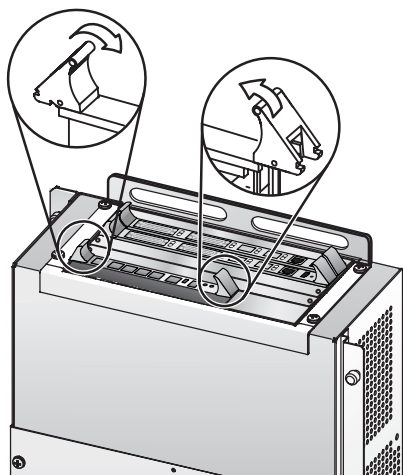
Push the ejector handles outward.

11

Align the sides of the replacement Interface Manager card with the guides in the designated slot in the expansion cage. Gently push the Interface Manager card into the expansion cage slot, making sure that the alignment pin on the card aligns with the alignment hole in the slot. Push the card until the ejector handles engage the metal rails on the top of the cage.

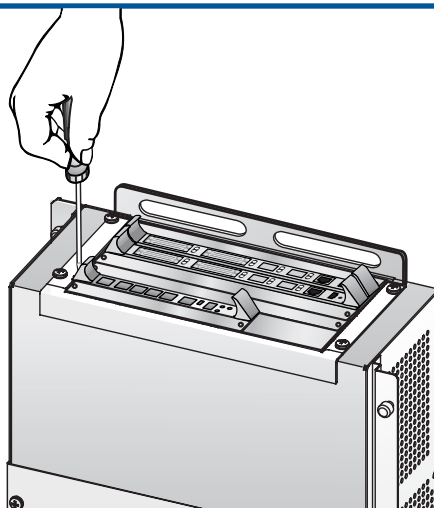


12



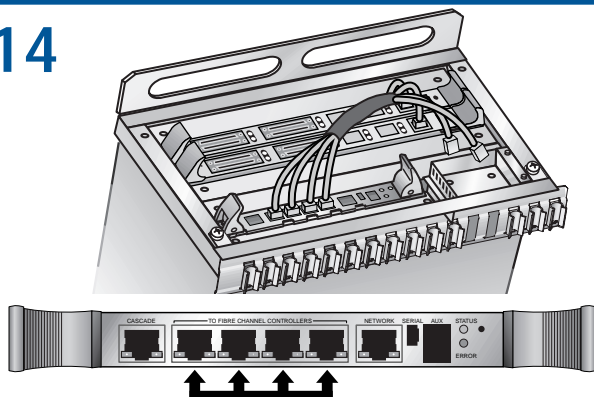
Push the ejector handles inward to lock the card in place.

13



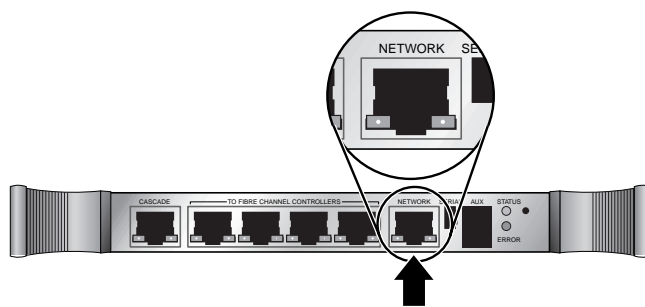
Tighten the captive screws to secure the Interface Manager card into the expansion cage.

14



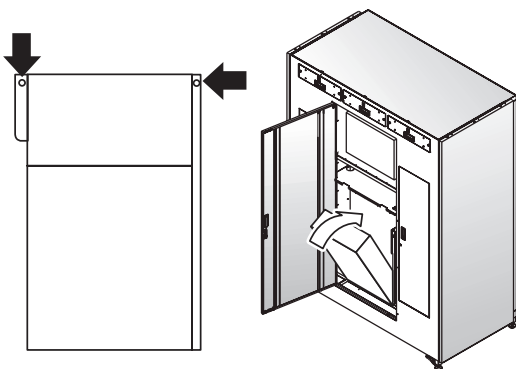
Reconnect the four connectors from the Ethernet cable bundle to the four Ethernet ports labeled "To Fibre Channel Controllers" on the Interface Manager card. Reconnect the cables in the same order that they were connected to the original Interface Manager card.

15



Reconnect the RJ-45 Ethernet cable from the LAN to the Ethernet port labeled "Network" on the Interface Manager card.

16



Verify that filler panels are installed in all unused slots in the expansion cage. Push the electronics bay back into the library cabinet and finger-tighten the two captive screws to secure the electronics bay in place.

17

Power on the ESL9000 Series library using the following sequence:

- a. Turn on both circuit breakers on the AC power distribution assembly.
- b. Verify that all access panels are closed, all back panel cable connections are firmly in place, and all doors are closed.
- c. Turn on the power switch located below the control panel.

Because all of the configuration settings of the Interface Manager card are stored in the memory module that you replaced in steps 9 and 10, your replacement Interface Manager card retains the configuration of the original card. To verify or change configuration settings, refer to Chapter 3, "Configuration and Software Installation," of the *HP StorageWorks Interface Manager and Command View ESL Installation Guide*.

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